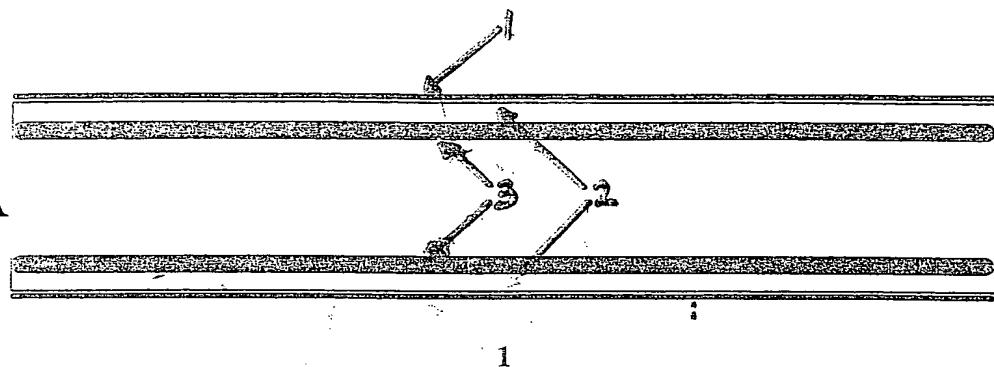


A

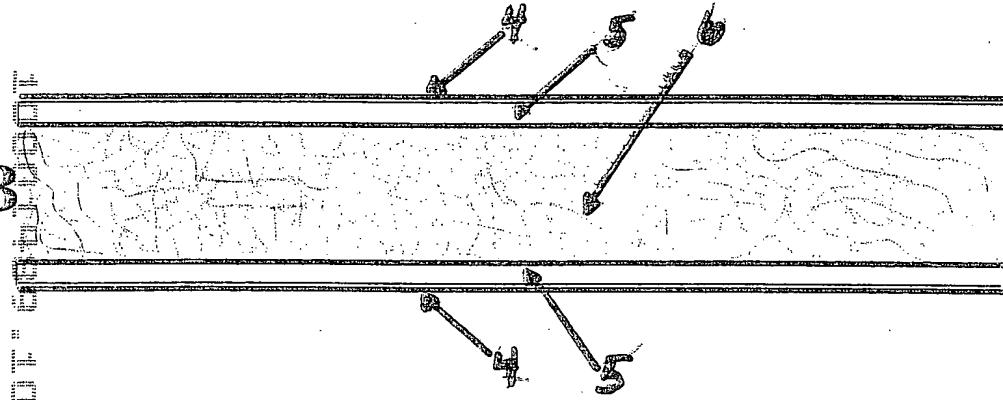


1: Protective outer coating

2: Tube Wall

3: Sol-gel Coating

B



4: Protective outer coating

5: Tube Wall

6: Sol-gel monolithic bed

Schematic of the Longitudinal Section of Extraction tubes with:

(A) Sol-gel Coating

(B) Sol-gel Monolithic Bed

FIG. 1

Introduction of the Extracted Sample into GC

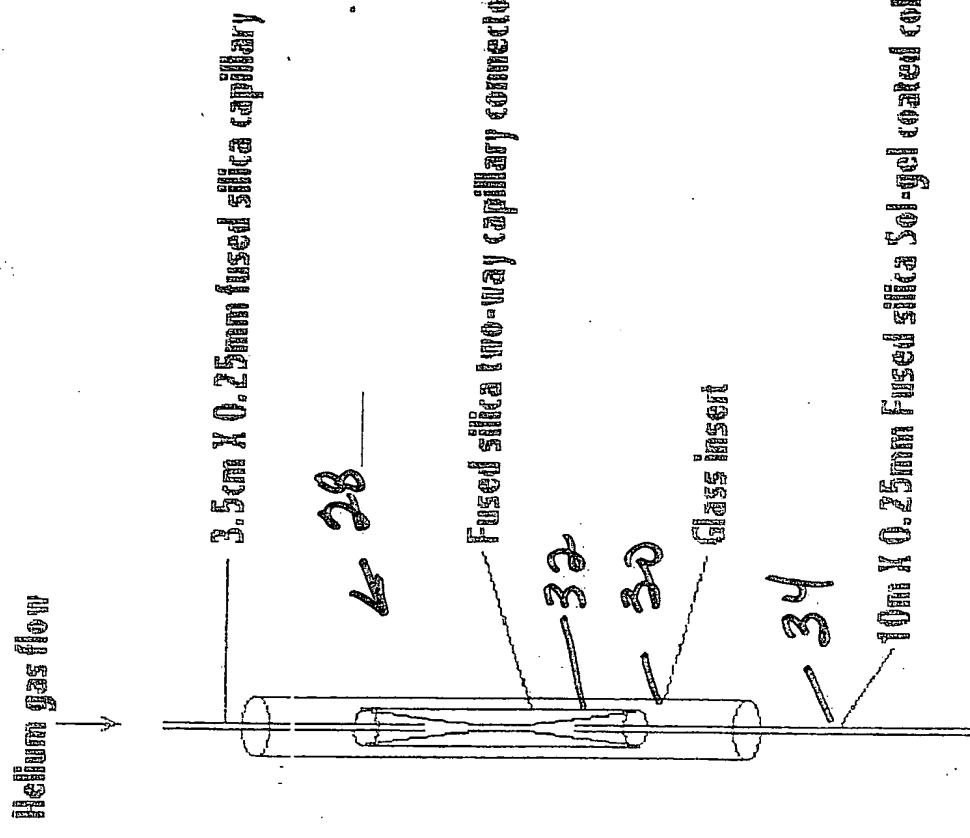


Figure 2

Capillary Microextraction of PAHs from Water

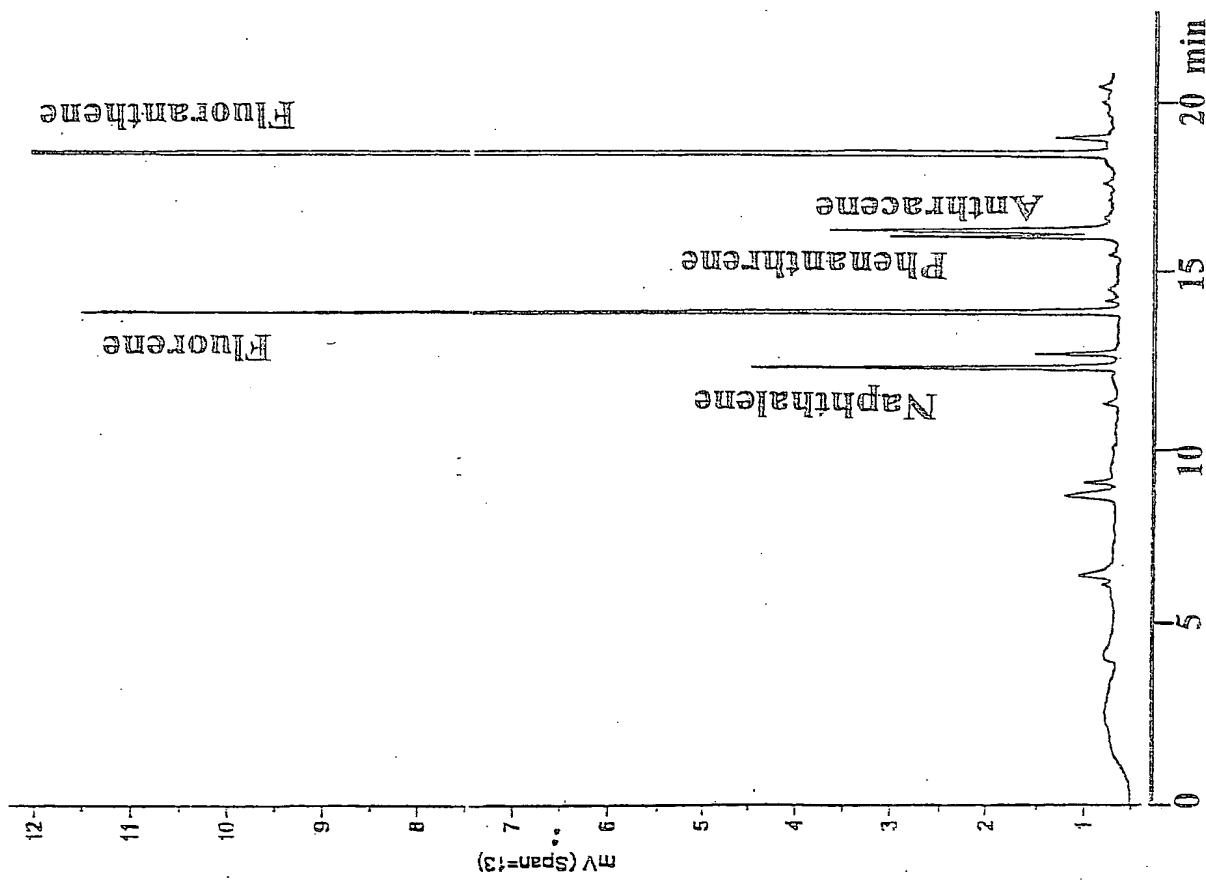


Figure 3

Sol-Gel Capillary Microextraction of Alcohols

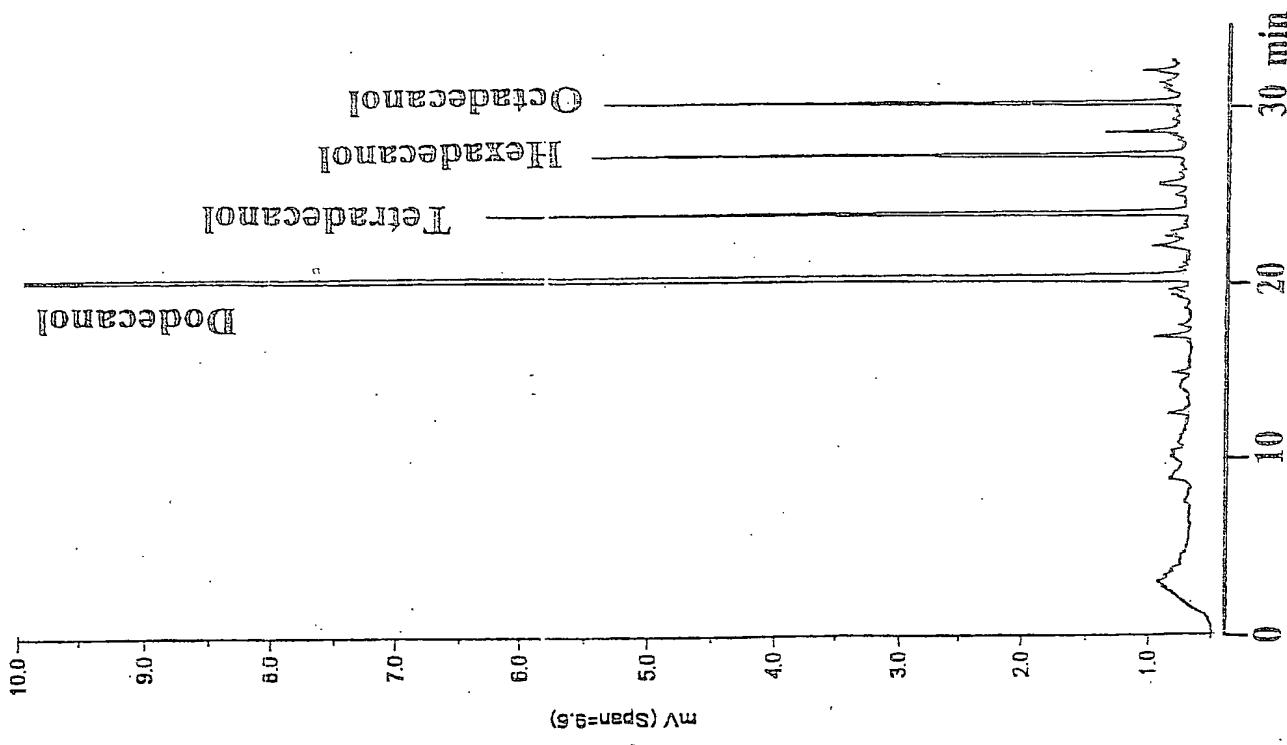


Figure A

Sol-Gel Capillary Microextraction of Polar
and Nonpolar Analytes from Water

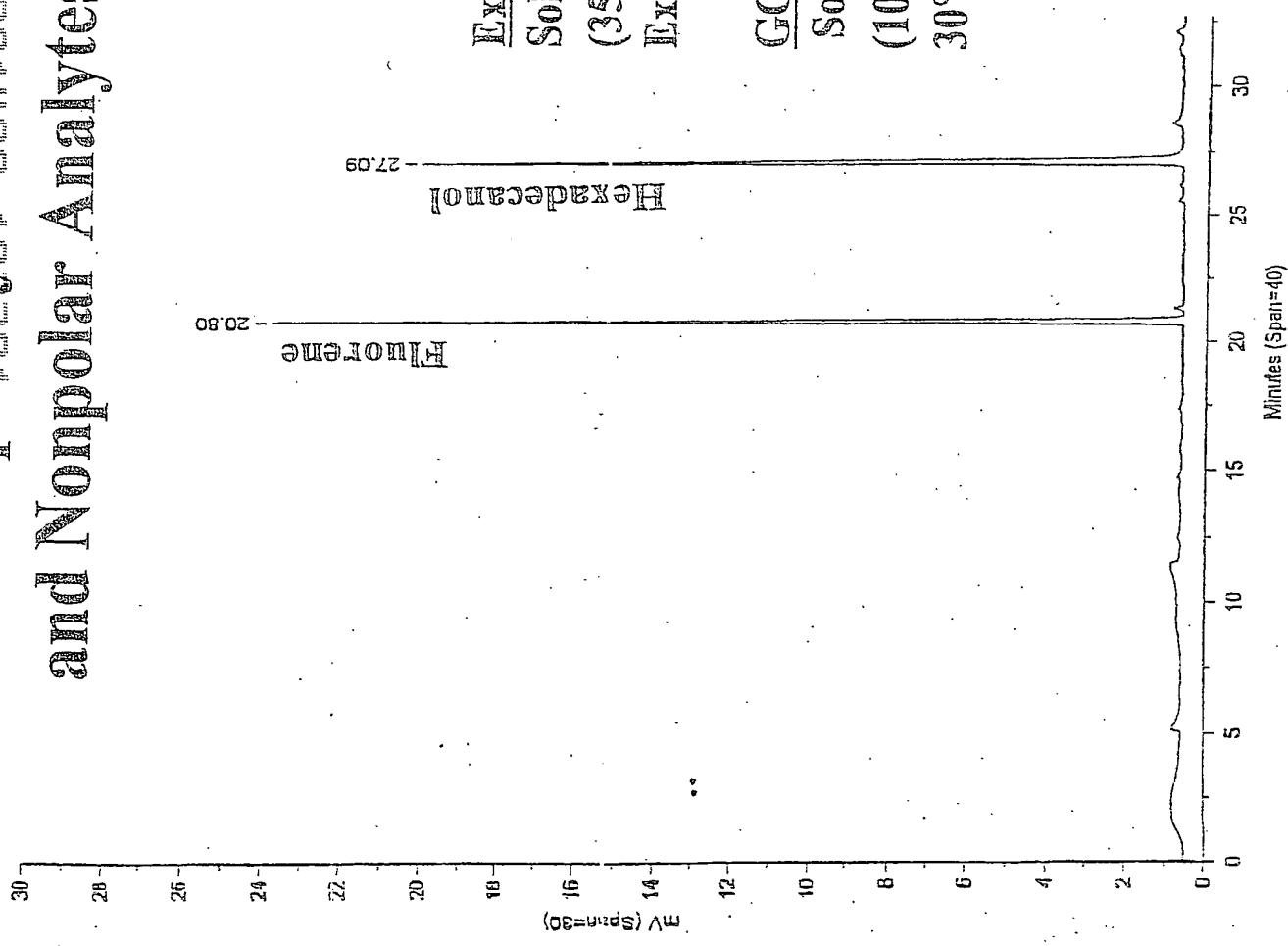


Figure 5

Mixture of 7 dim. amides

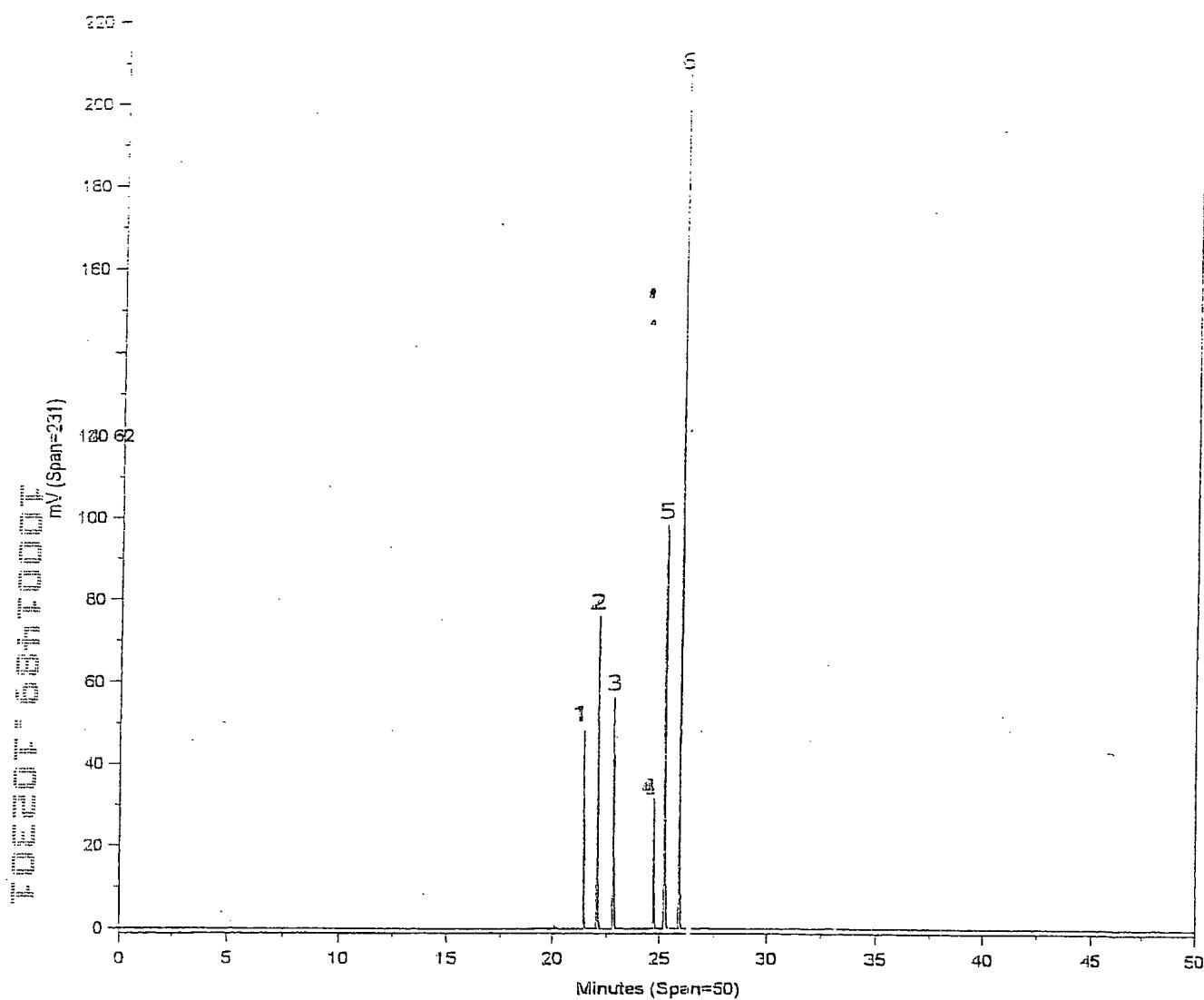
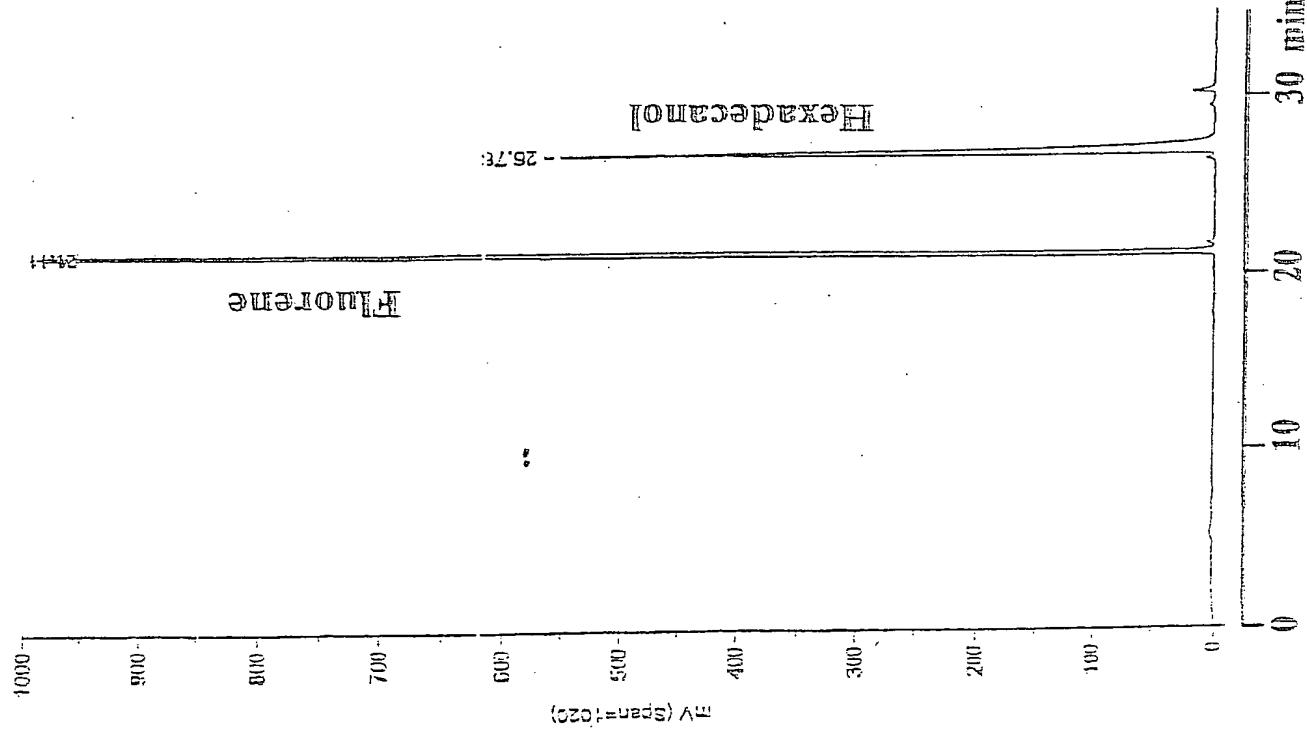


FIG. 6

Caudillary Microextraction on Monolithic Bed



Sol-Gel ODS Monolithic Bed

35 mm x 50 μ m i.d.

1 ppm

Extraction for 30 min

Desorption at 300°C

GC Conditions:

Sol-gel PDMs Column

(10 mm x 250 μ m i.d.)

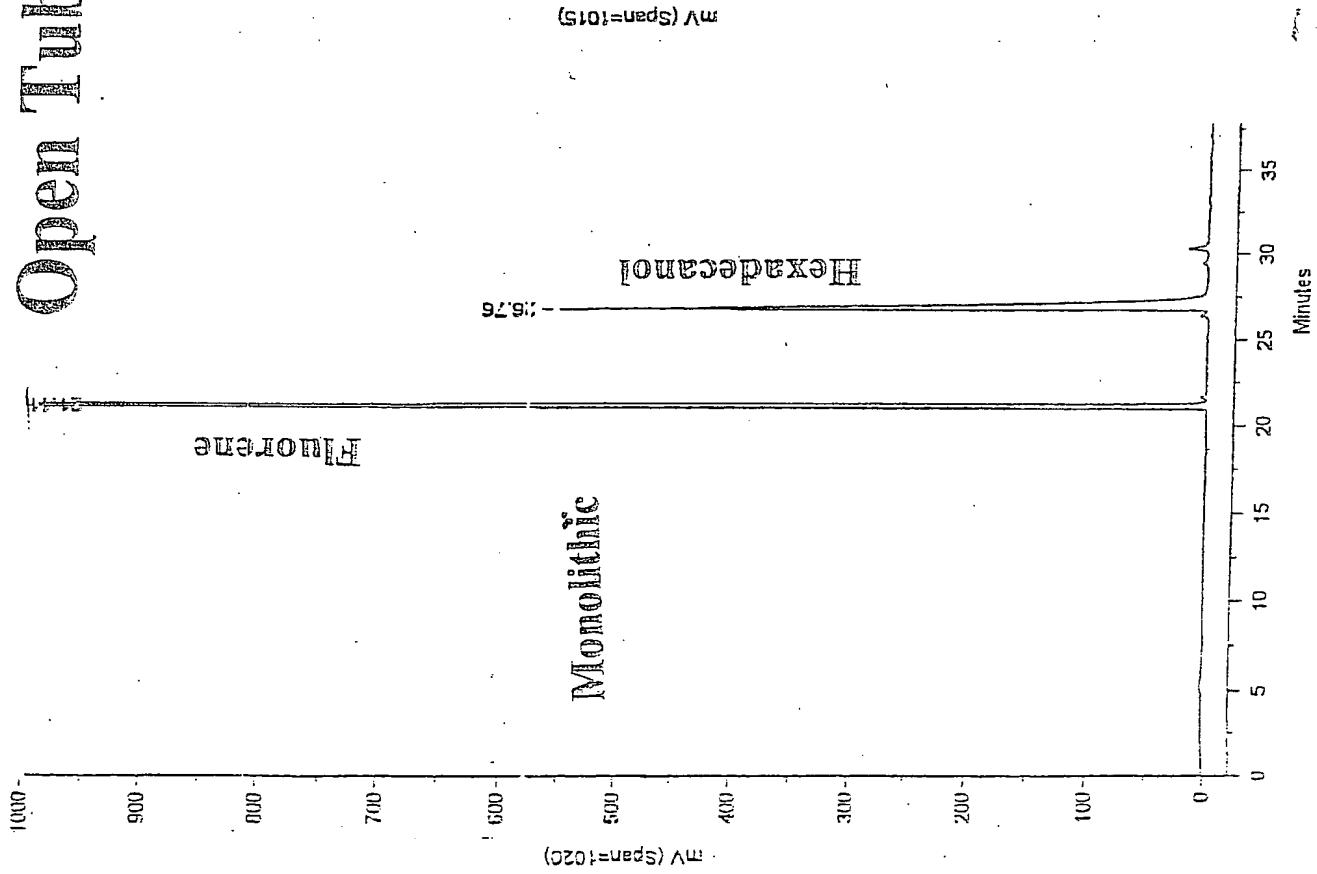
30°C (5 min), @ 6°C/min

Fig. 7

70107-63417-0007

Capillary Microextraction: Monolithic vs.

Open Tubular



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Gravity Feed Extraction System for
Capillary Micro-Extraction

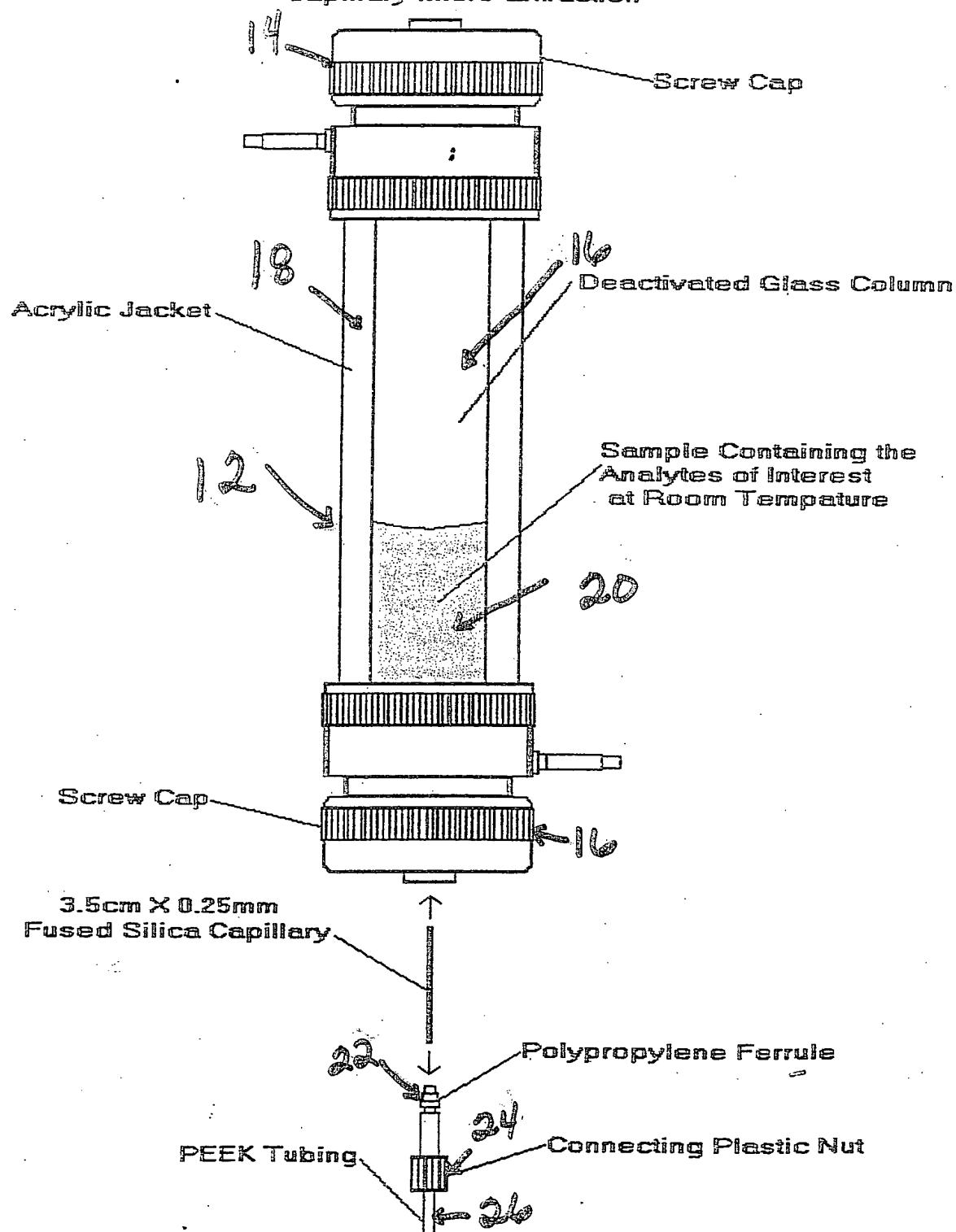


FIG. 9

Home Made Capillary Purging Device

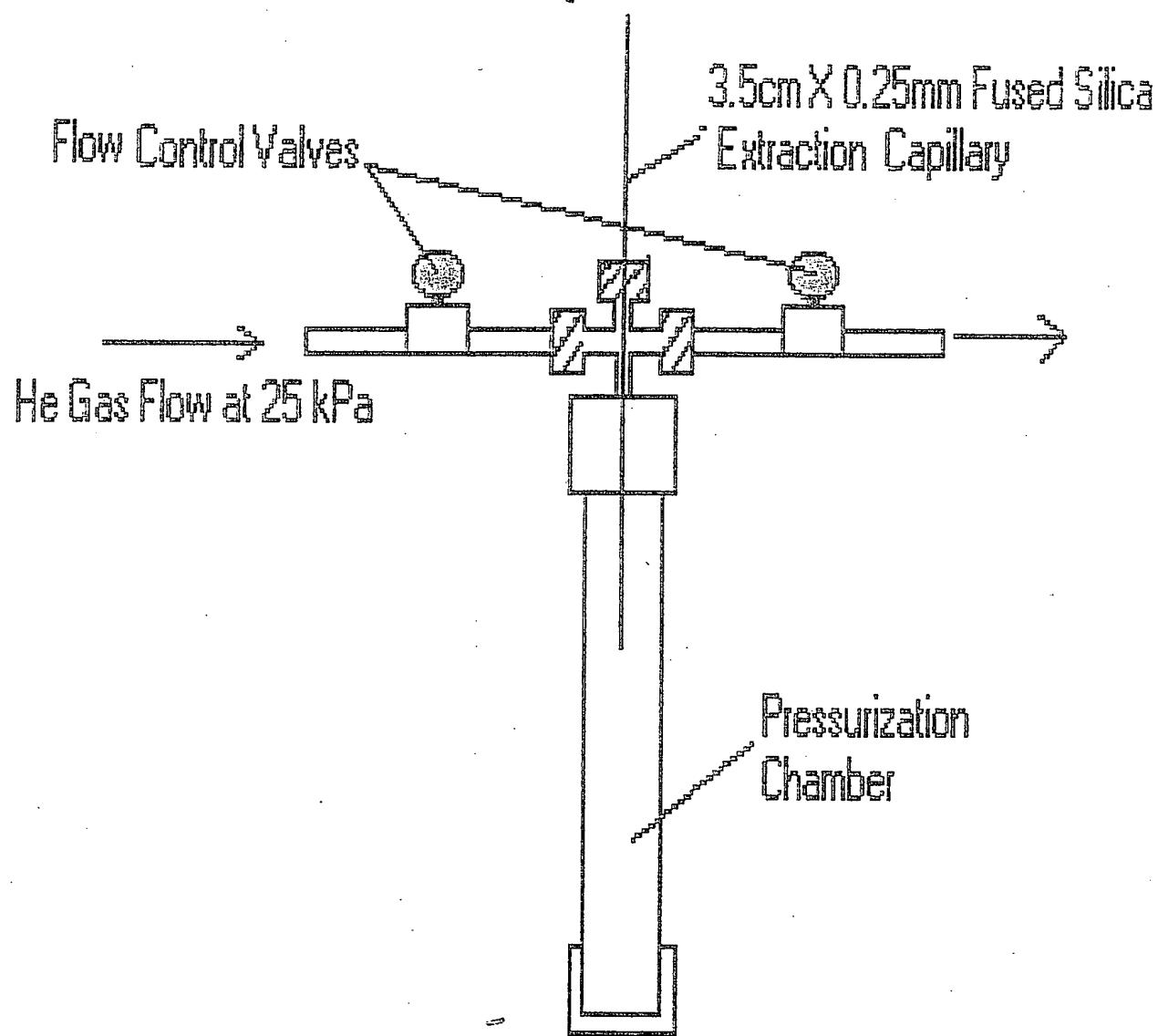
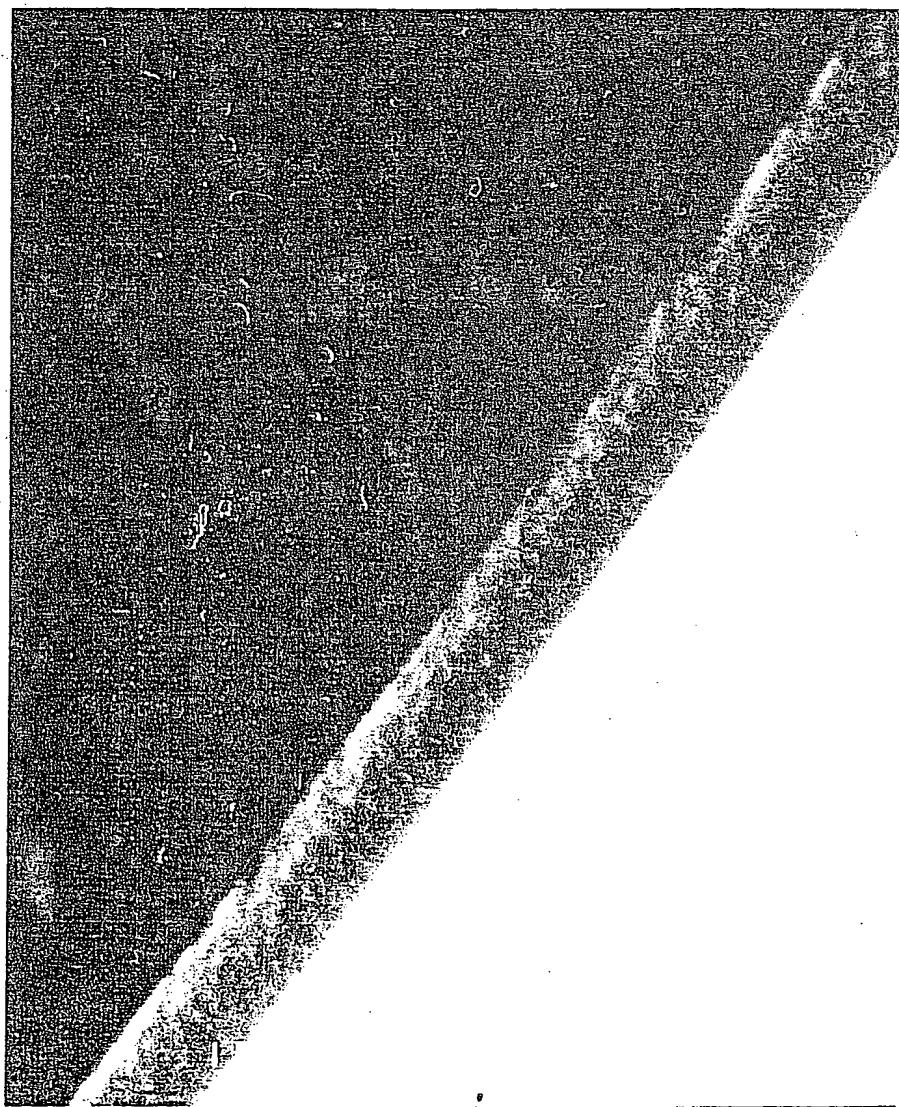


FIG. 10

FIG. 4A



(Figure 4A)

1000-5847004

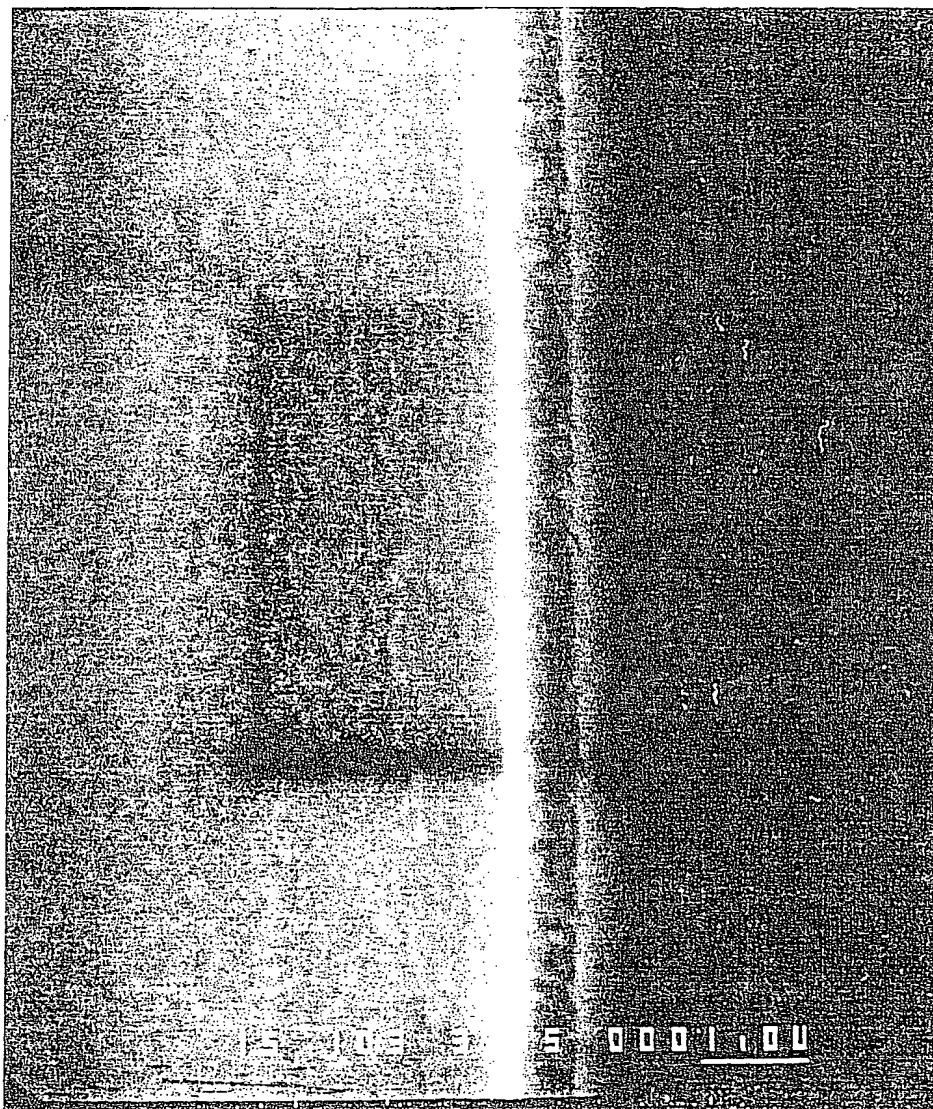


FIG. III B

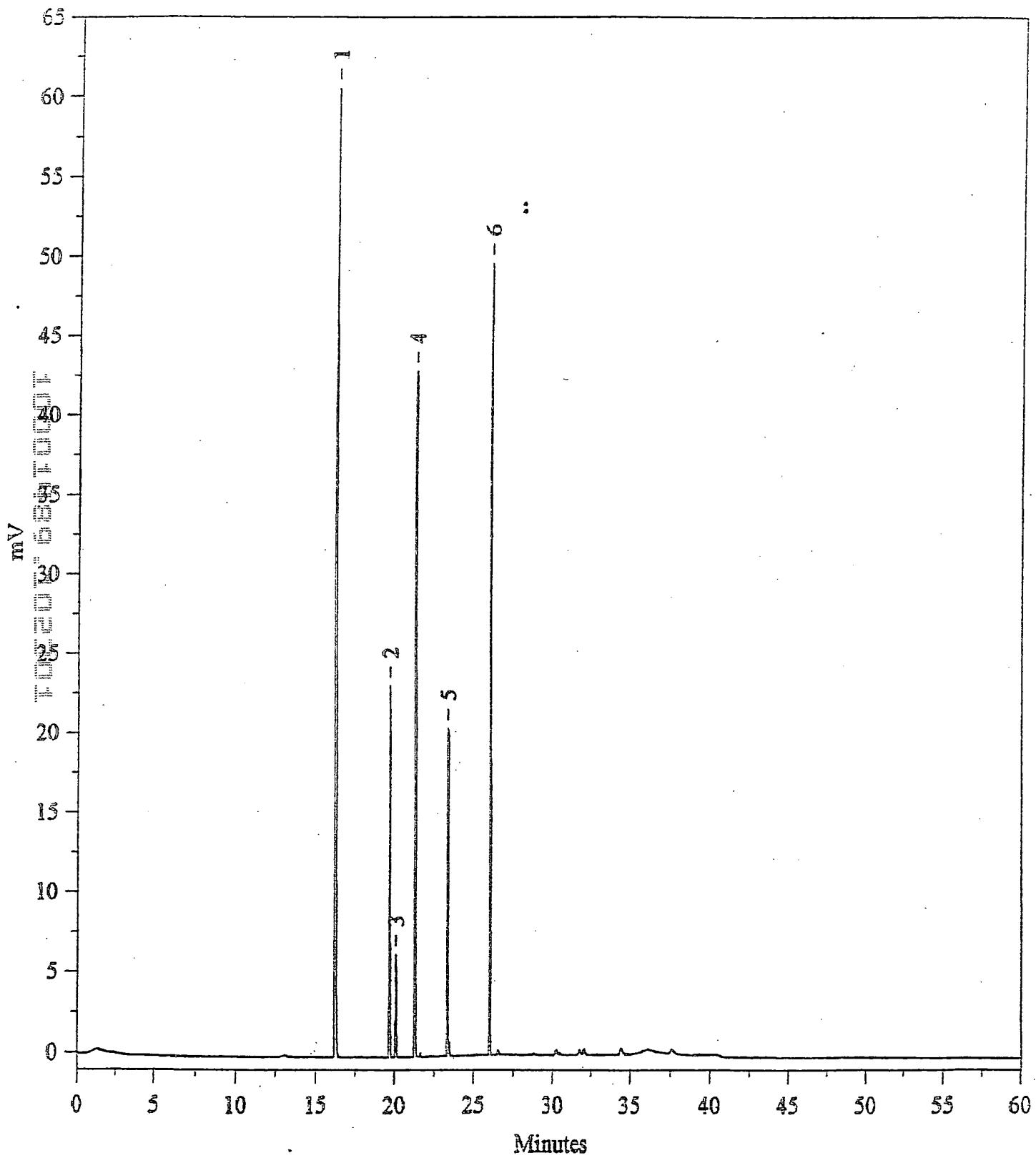


FIG. 12

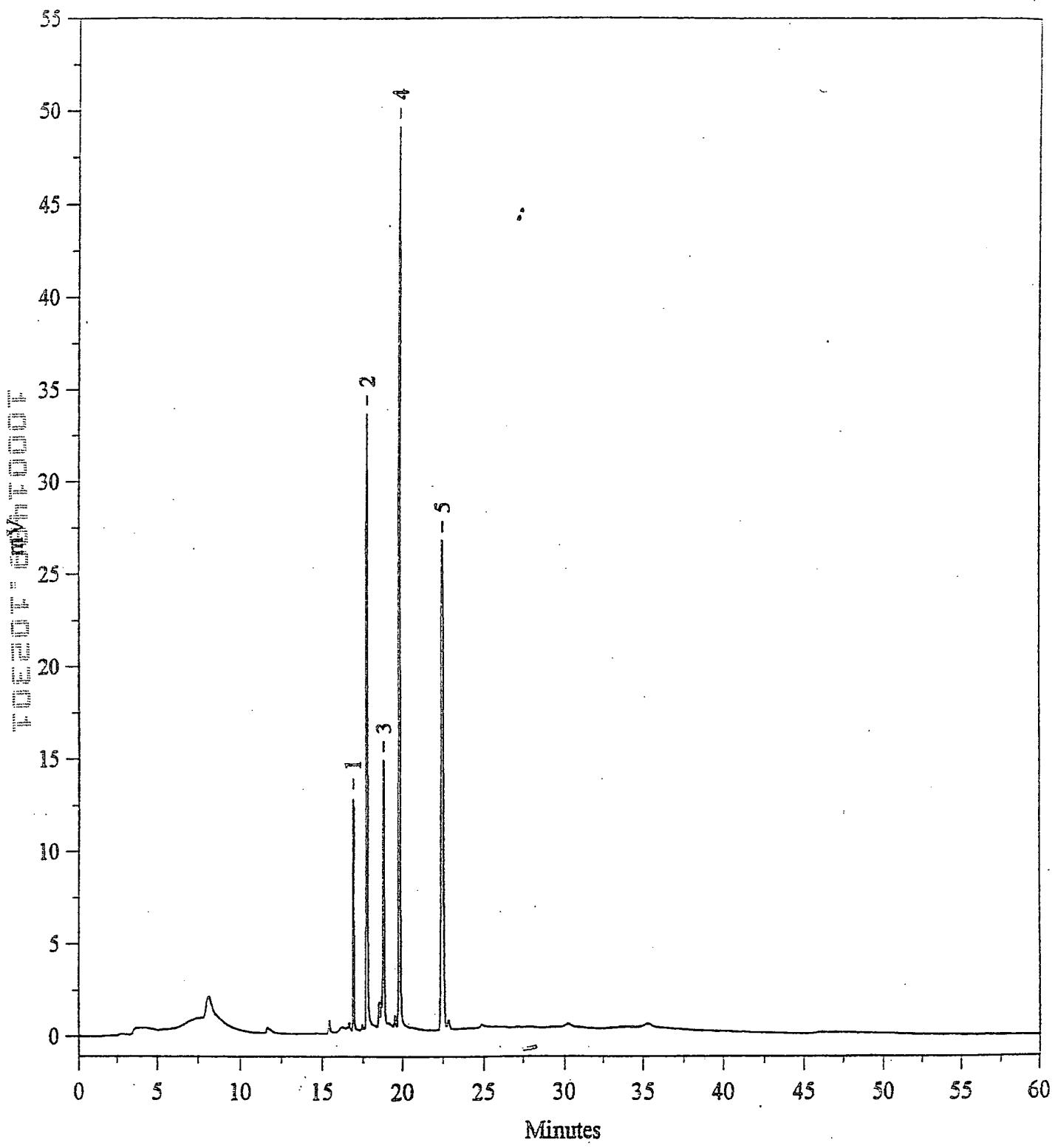


FIG. 13

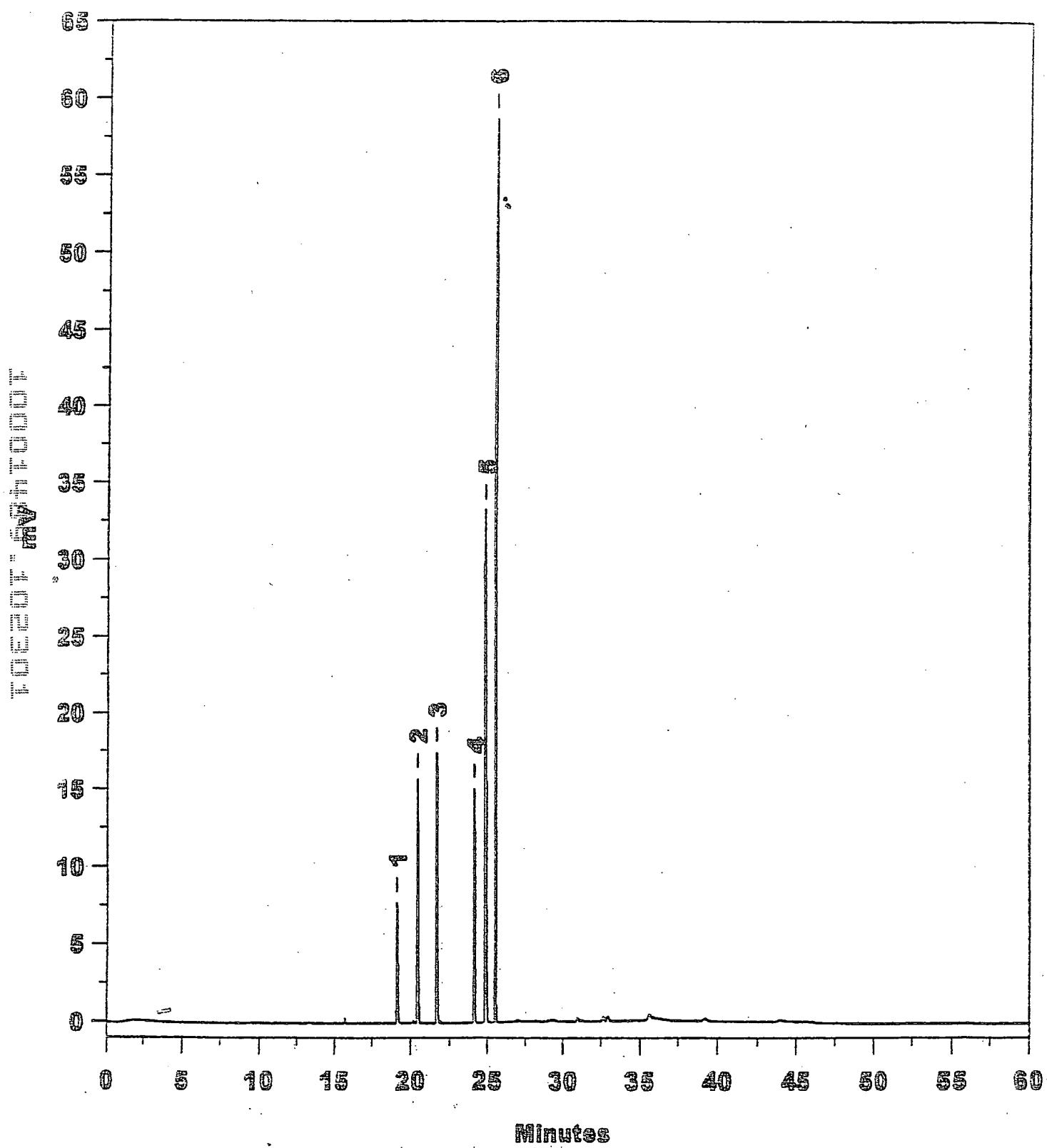


FIG. 14

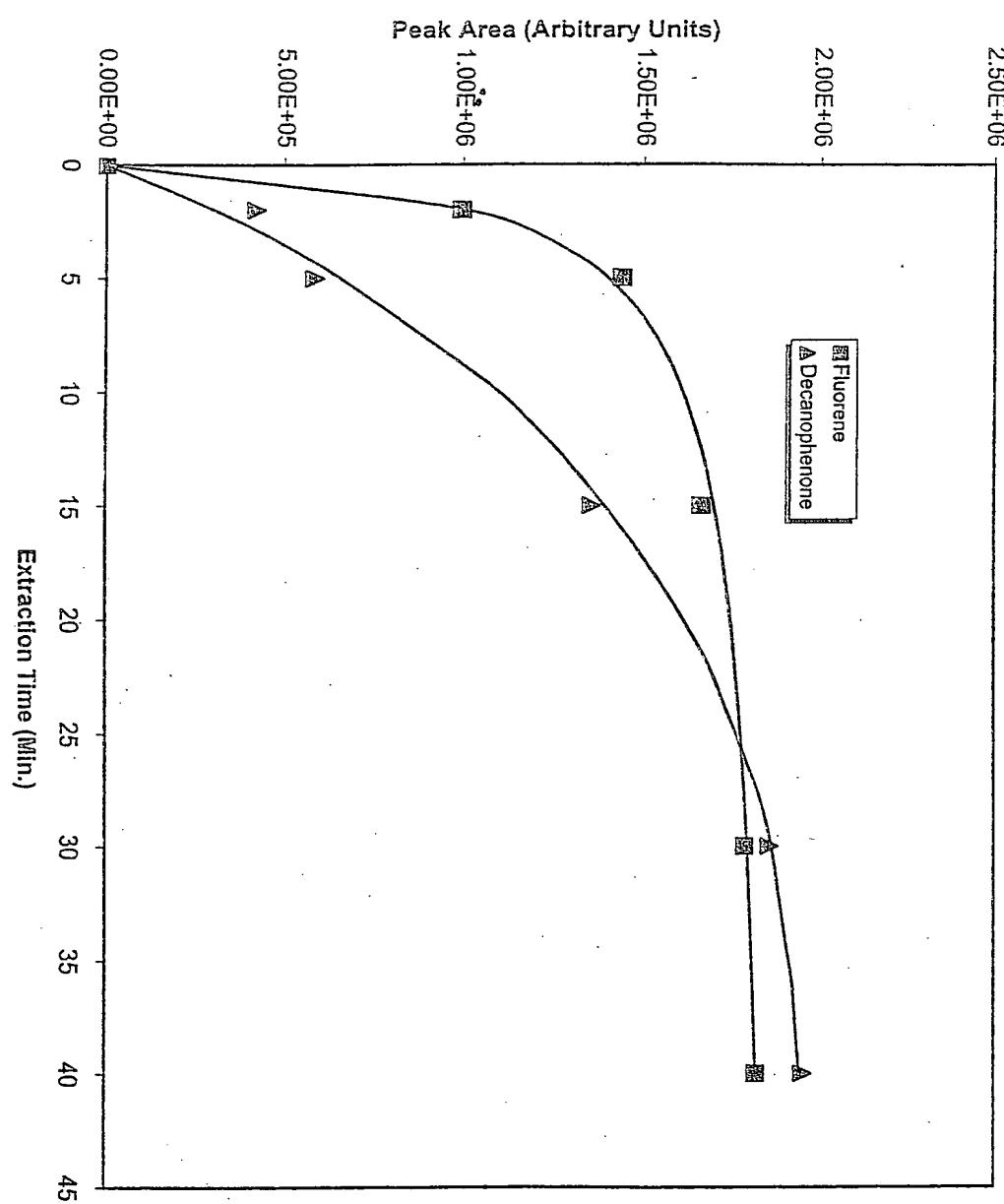


Fig. 15

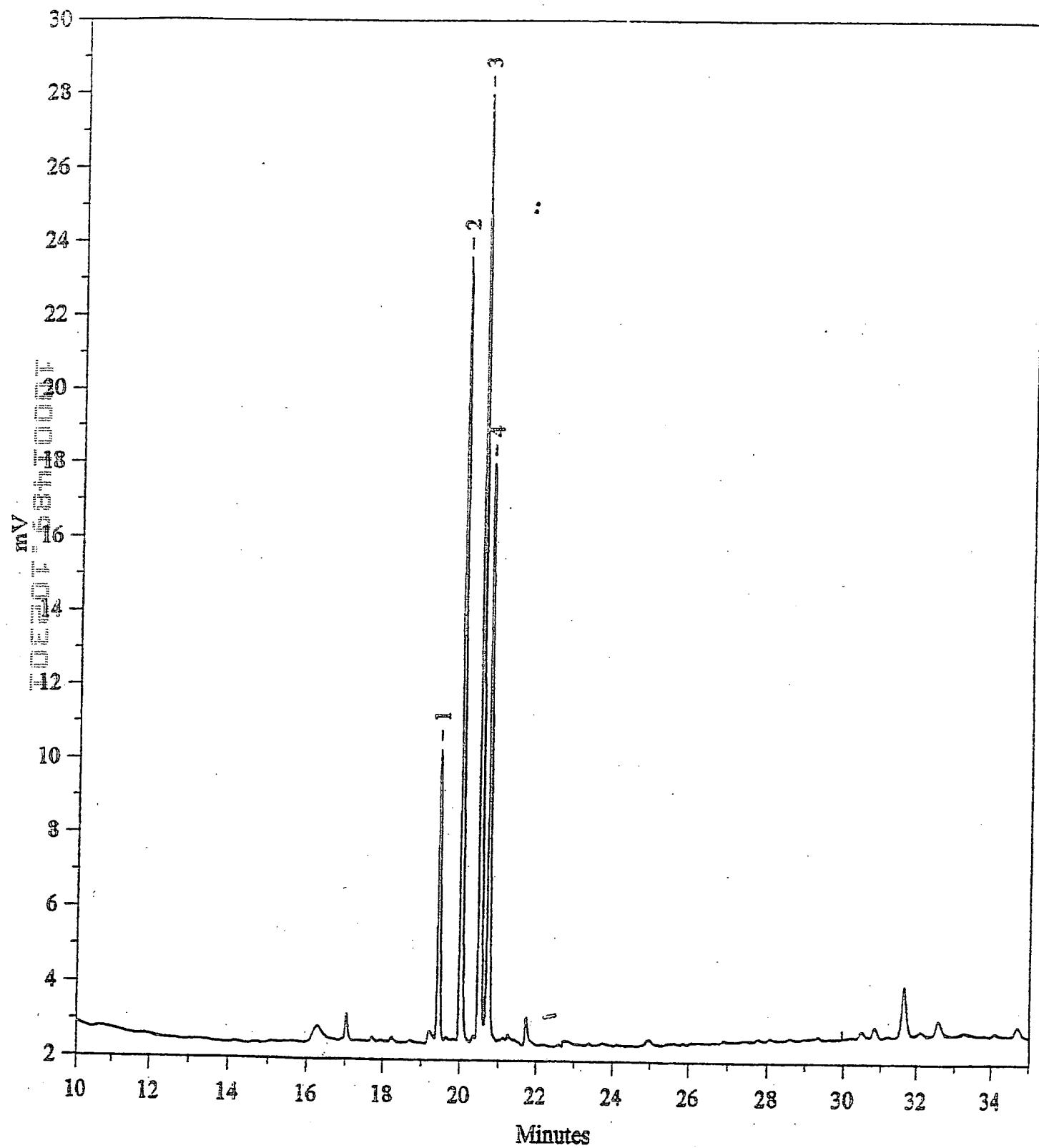


FIG. 16

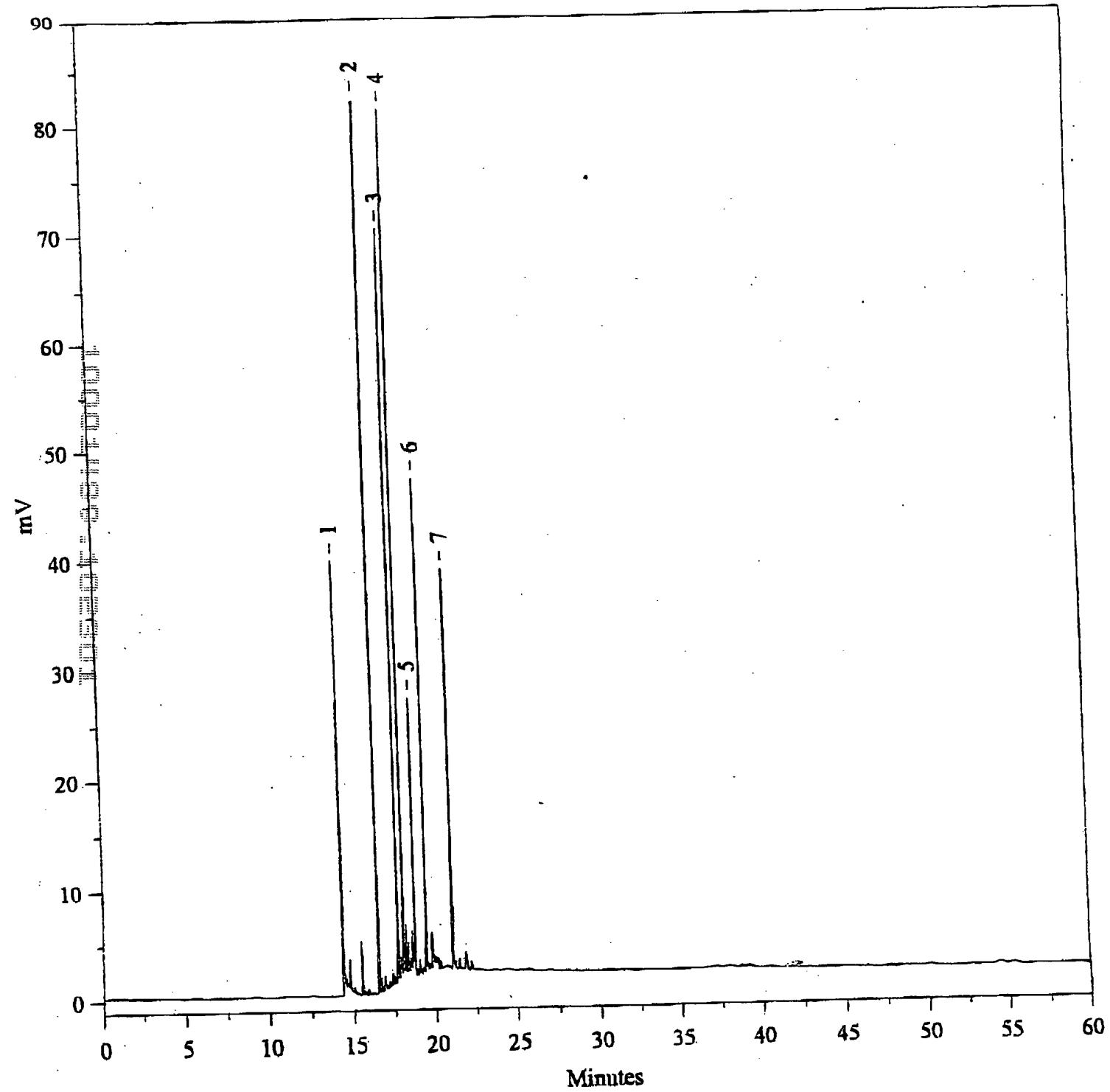
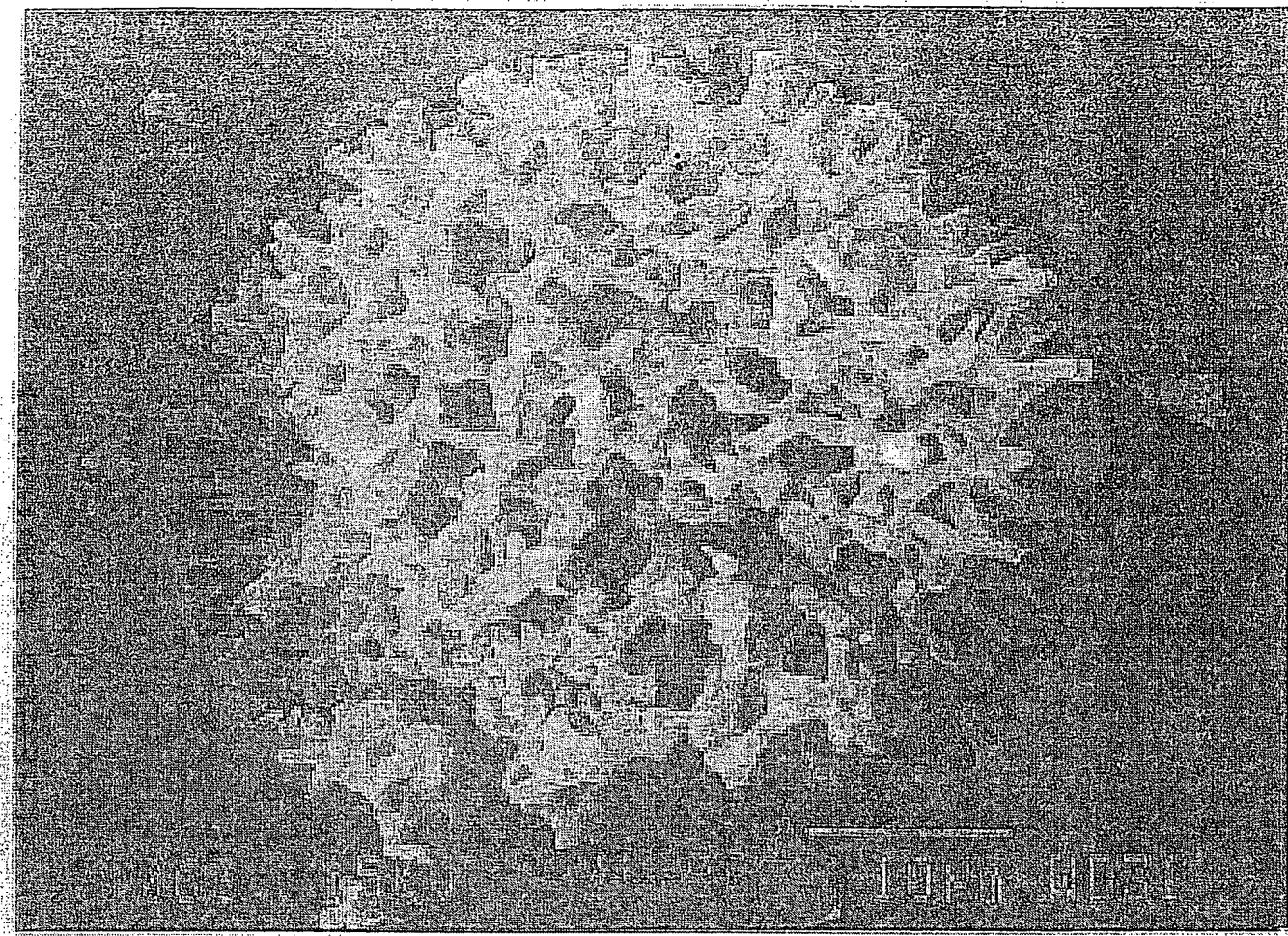


Figure 17



Scanning Electron Micrograph (SEM) Cross-sectional View
of a Fused Silica Capillary with a Sol-gel Monolithic Bed

FIG. 18